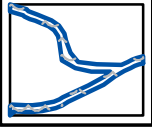
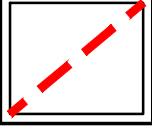
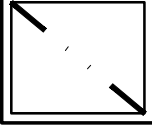
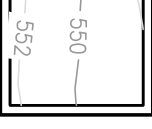
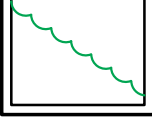
PROJECT LIMITS

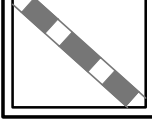
APPROXIMATE STREAM CHANNEL LIMITS

EXISTING DRAINAGE AREA

TIME OF CONCENTRATION LINE

EXISTING TOPOGRAPHY

EXISTING TREE LINE

EXISTING CULVERT

EXISTING PROJECT AREA DATA:

PROJECT AREA

6.7 ACRES ±

OPEN SPACE (PROJECT LIMITS)

5.8 ACRES ±

FORESTED (PROJECT LIMITS)

0.9 ACRES ±

CURVE NUMBER

78

DRAINAGE AREA DATA:

DRAINAGE AREA

5.7 ACRES ±

OPEN SPACE (IN DA)

5.0 ACRES ±

FORESTED (IN DA)

0.7 ACRES ±

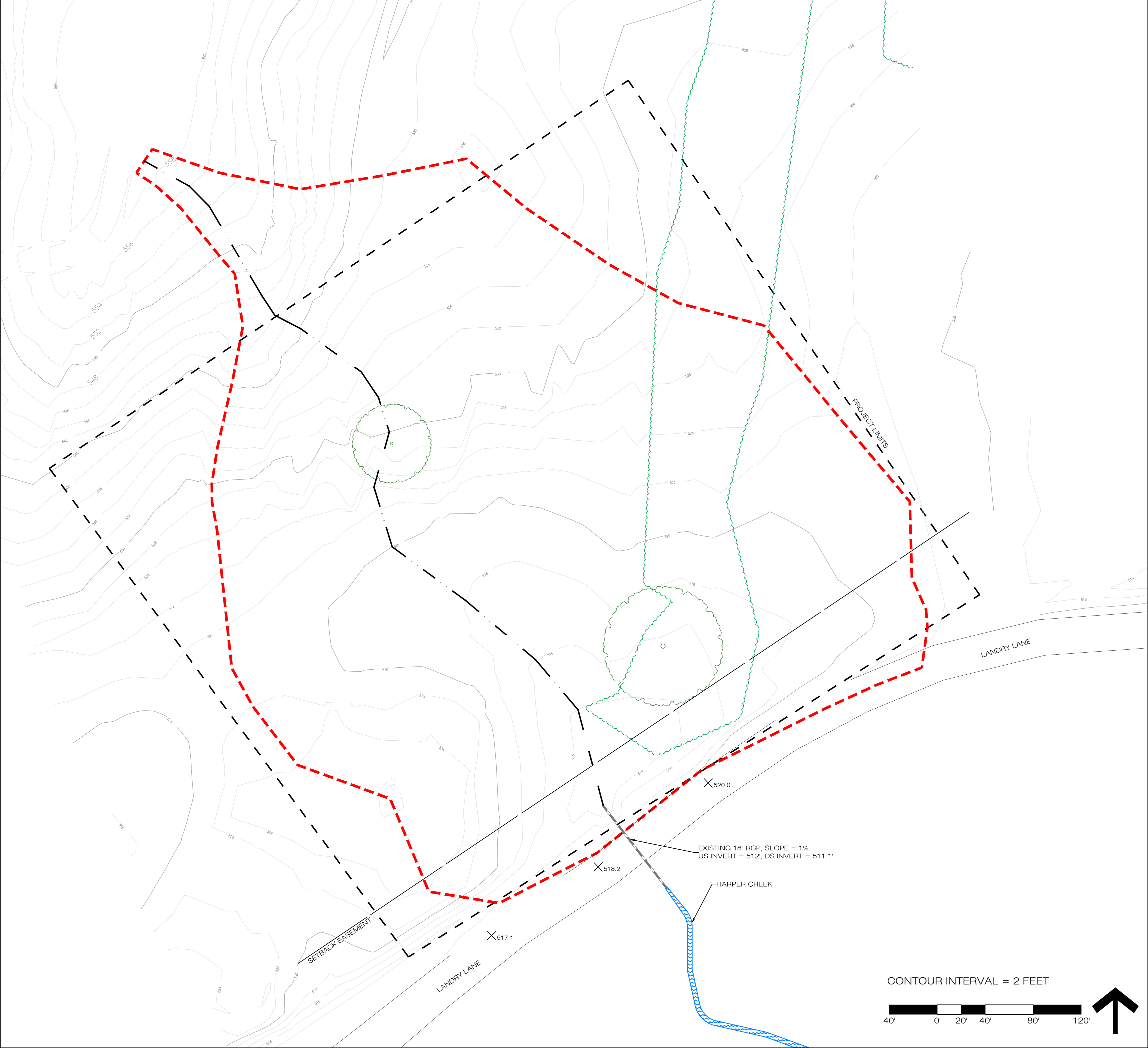
TIME OF CONCENTRATION

22 MINUTES ±

CURVE NUMBER

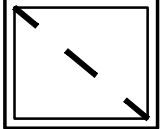
79

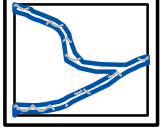
°C° SOILS THROUGHOUT



APRIL 2014									
SMALLTOWN, VIRGINIA DEPARTMENT OF PUBLIC WORKS									
			SITE PLANNING DIVISION						
			EXERCISE 5						
			T&L COMMERCIAL DEVELOPMENT EXISTING CONDITIONS						
			DEQ TRAINING CASE STUDY						
			DESIGNED BY: K. PROBST DRAFTED BY: K. PROBST CHECKED BY: J. SMITH			SCALE 1"=40'			

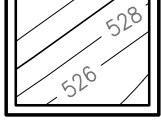
LEGEND:

PROJECT LIMITS

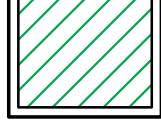
APPROXIMATE STREAM CHANNEL LIMITS

PROPOSED DRAINAGE AREA

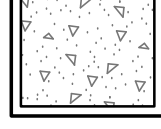
EXISTING TOPOGRAPHY

PROPOSED GRADING

EXISTING CULVERT

PROPOSED SITE BMP

PROPOSED PARKING LOT

PROPOSED SIDEWALK

PROPOSED TREELINE

PROPOSED PROJECT AREA DATA:

PROJECT AREA

6.7 ACRES ±

OPEN SPACE (PROJECT LIMITS)

3.50 ACRES ±

MANAGED TURF (PROJECT LIMITS)

1.25 ACRES ±

IMPERVIOUS (PROJECT LIMITS)

1.95 ACRES ±

CURVE NUMBER

79

PROPOSED SITE DATA						
DA	AREA (AC)	TREATMENT IN DA?	TREATMENT	IMPERVIOUS AREA (AC)	OPEN SPACE (AC)	MANAGED TURF (AC)
1	0.90	NO	-	0.10	0.75	0.05
2	0.20	YES	CISTERN	0.20	0.00	0.00
3	0.30	NO	-	0.1	0.20	0.00
4	0.27	NO	-	0.15	0.07	0.05
5	0.30	YES	PERM. PAVEMENT	0.3	0.00	0.00
6	1.80	YES	DRY SWALE	0.65	0.65	0.50
7	0.20	YES	PERM. PAVEMENT	0.2	0.00	0.00
8	0.70	YES*	EXTENDED DETENTION	0.2	0.00	0.50
9	0.66	NO	-	0.05	0.46	0.15
TOTAL	5.3	-	-	1.95	2.13	1.25

NOTE: ASSUME 5 MINUTES FOR TIME OF CONCENTRATION FOR EACH WATERSHED. ASSUME ALL SOILS ARE "C".
*BIORETENTION IN DA 8 CAPTURES DRAINAGE FROM DA'S 1-7 AS WELL, THESE ADDITIONAL AREAS ARE NOT INCLUDED IN THE DA 8 AREA.



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Δ		DESCRIPTION		BY		APPROVED		DATE	
Δ		APPROVED BY SITE PLANNING DIVISION						SCALE 1"=40'	
								DESIGNED BY: K. PRIEST DRAFTED BY: K. PRIEST CHECKED BY: J. SMITH	